

**FIG. 1**

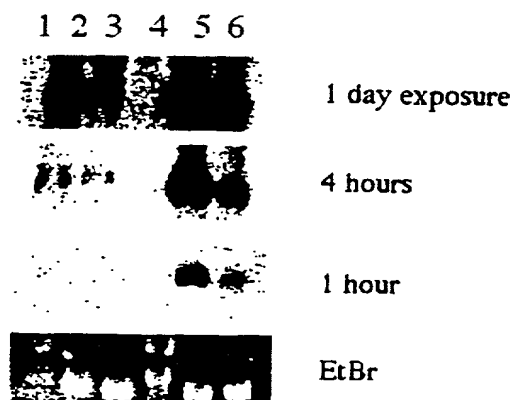


FIG. 2A

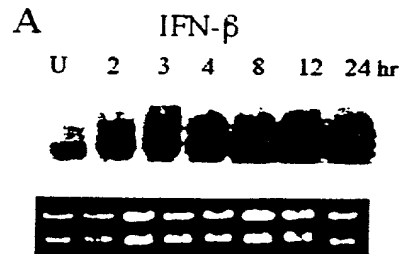


FIG. 2B

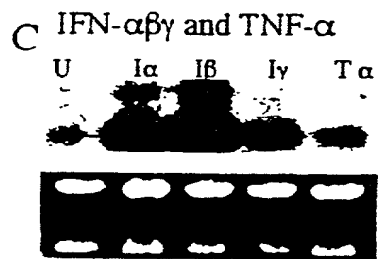
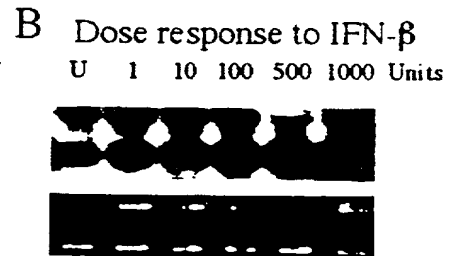


FIG. 2C

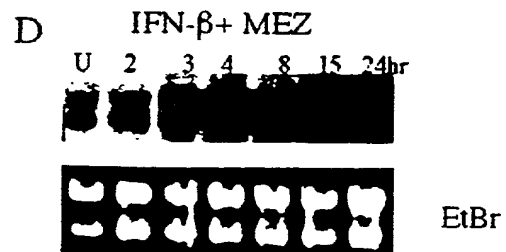
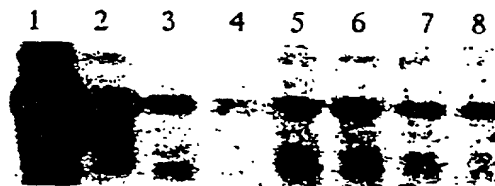


FIG. 2D

EtBr

**FIG. 3A**

Human Multiple Tissue Northern Blot



**FIG. 3B**

Mouse Development

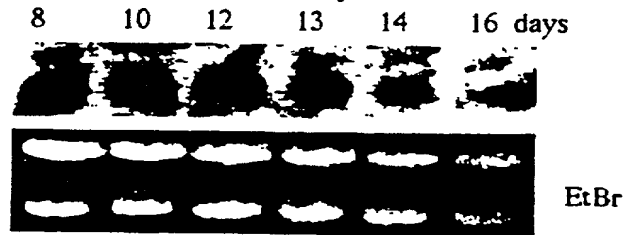


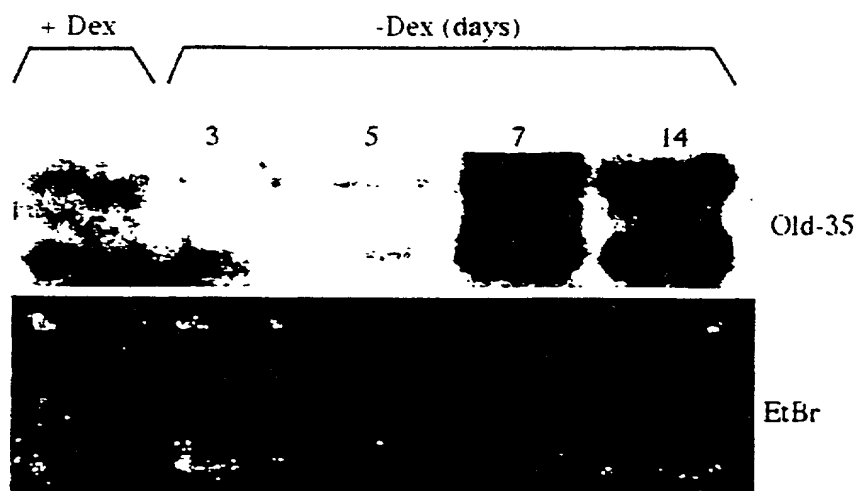
FIG. 4A

human	TTGAAGATTACAATGGTGACATGGACTTCAAAATAGCTGG	40
mouse	.....AATGGTGACATGGATTTCAAAATAGCCGG	29
Consensus	aatggtgacatgga ttcaaaatagc gg	
human	CAC TAATAAAGGAATAACTGCATTACAGGCTGATATTAAA	80
mouse	TAC TAATAAAGGAATAACTGCATTACAGGCTGATATTAAAG	69
Consensus	ac aataaaggaataactgcattacaggctgatattaa	
human	TTACCTGGAAATACCAATAAAAATTGTGATGGAGGCTATTC	120
mouse	TTACCTGGAGTACCAATTAAATTTATAATGGAAGCCATCC	109
Consensus	ttacctgga taccaat aaaatt t atgga gc at c	
human	AACAAGCTTCAGTGGCAAAAAGGAGATAATACAGATCAT	160
mouse	AACAAGCGTCAGTGGCAAGAAGGAGATACTGCAGATAAT	149
Consensus	aacaagc tcagtggcaaa aaggagata t cagat at	
human	GAACAAAAC TATTTCAAAACCTCGAGCATCTAGAAAAGAA	200
mouse	GAACAAAAC GATTTCAAAACCTCGAGCATCAAGAAAAGAA	189
Consensus	gaacaaaac atttcaaaacctcgagcatc agaaaagaa	
human	AATGGACC TGTGTAGAAACTGTTCAGGTTCCATTATCAA	240
mouse	AATGGACCA GTTGTAGAAACA GTAAAGGTTCCATTATCAA	229
Consensus	aatggacc gttgtagaac gt aggttccattatcaa	
human	AACGAGCAAAATT TGTGGACCTGGTGGCTATAACTTAAA	280
mouse	AACGAGCAAAATT CTTTGGGCCTGGTGGATATCACTTAAA	269
Consensus	aacgagcaaaatt gttgg cctggtgg tat acttaaa	
human	AAAAC T CAGGCTGAAACAGGTGTAAC TATTAGTCAGGTG	320
mouse	AAAAC T CAGGCTGAGACAGGTGTAACAATTAGTCAGGT	309
Consensus	aaaact caggctga acaggtgtaac attagtcaggt	
human	GATGAAGAAACCTTTCCTGATTTGCACCAACACC CAGTG	360
mouse	GATGAAGAAACCTTCTCCATATTTGCACCAACACCTACTG	349
Consensus	gatgaagaaac tt tc tatttgcaccaacacc a tg	
human	TTATGCATGAGGCAAGAGACTTCATTACTGAAATCTGCAA	400
mouse	CAATGCATGAAGCAAGAGATTTCATTACAGAAATTTGCAG	389
Consensus	atgcatga gcaagaga ttcattac gaaat tgca	
human	GGATGATCAGGAGCAGCAATTAGAATTTGGAGCAGTATAT	440
mouse	AGATGATCAAGAGCAACAATTAGAATTTGGAGCAGTTAT	429
Consensus	gatgatca gagca caattagaatttggagcagt tat	
human	ACCGC CACAATAACTGAAATCAGAGATCTGGTGTAATGG	480
mouse	ACCGC GACAATAACTGAAATCAGAGACACTGGAGTGATGG	469
Consensus	accgc acaataactgaaatcagaga actgg gt atgg	

FIG. 4B

human	TAAAATTATATCCAAATATGACTGCCGTACTGCTTCATAA	520
mouse	TAAAACCTGATCCAAACATGACTGCCAGTGCTGCTTCATAA	509
Consensus	taaaa t tatccaaa atgactgc gt ctgcttcataa	
human	CACACAACCTTGAT.AACGAAAGATTAAACATCCACTGCC	559
mouse	TTACACAACCTTGACCAACGAAAGATTAAACATCCCAGTCCC	549
Consensus	cacaacttga aacgaaagattaaacatcc actgcc	
human	CTAGGATTAGAAAGTTGGCCAAGAAATTCAGGTCAAATACT	599
mouse	CTAGGACTAGAGGTTGGCCAAGAAATTCAGGTCAAATACT	589
Consensus	ctagga taga gttggccaagaaattcaggt aaatact	
human	TTGCACGTGACCCAGCCGATGGAAGAATGAGGCTTTCTCG	639
mouse	TTGGCCGTGATCCAGCTGATGGAAGAATGAGGCTTTCTCG	629
Consensus	ttgg cgtga ccagc gatggaagaatgaggctttctcg	
human	AAAAGTGCTTC	650
mouse	TAAAGTACTTC	640
Consensus	aaagt cttc	

FIG. 5



**FIG. 6**

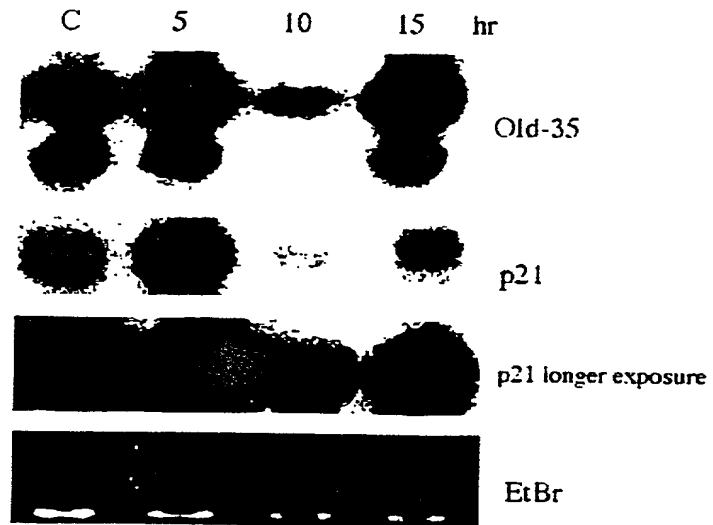


FIG. 7

Hu GM-CSF UAAUUUUUUAUAUUUUUAUUUUUAAAAUUUUUUUUUUUUUUUAA

Hu IFN- $\alpha$  UUUUUAUUUAA

Hu IL 2 UUUUUAUUUAAAUAUUUUAAAUUUUAUUUUUAAU

Hu TNF AAUUAUUUUAUUUUUUAUUUAUUUUUUAUUUAUUUAUU

C-fos GUUUUUAAUUUUAUUUAUUAAAGAUGGAUUCUCAGAUUUUUAUAUUUUUU

AUUUAUUUUUUUUU

Old-35 AUUUUCAUGUGCCAUUUUUUUAAUUCGAGUAACCCAUAUUUGUUUAAUU

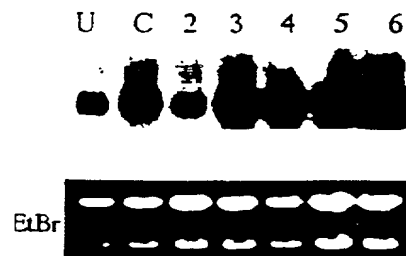
GUUUUUCAUUUAUUAAUCAAGAAUAUUUUAUUUAUUAAAAGUAAGUC

AUUUUAUACAUCUUAGA



**FIG. 8A**

Response of Old-35  
To IFN- $\beta$  Treatment  
In the Presence of Cyclohexamide

**FIG. 8B**

Half-life of Old-35 in IFN- $\beta$ +MEZ  
Treated HO-1

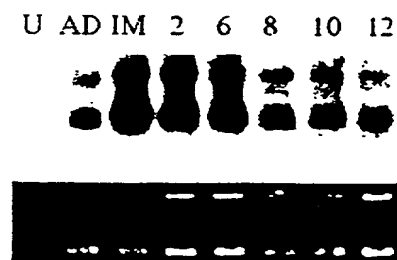


FIG. 9A

GATGGTCCTT	TCCTTCTGCC	ACGGCGGGAT	CGGGCACTCA	CCCAGTTGCA
AGTGCGAGCA	CTATGGAGTA	GCGCAGGGTC	TCGAGCTGTG	GCCGTGGACT
TAGGCAACAG	GAAATTAGAA	ATATCTTCTG	GAAAGCTGGC	CAGATTTGCA
GATGGCTCTG	CTGTAGTACA	GTCAGGTGAC	ACTGCAGTAA	TGGTCACAGC
GGTCAGTAAA	ACAAAACCTT	CCCCTTCCCA	GTTTATGCCT	TTGGTGGTTG
ACTACAGACA	AAAAGCTGCT	GCAGCAGGTA	GAATTCCCAC	AAACTATCTG
AGAAGAGAGG	TTGGTACTTC	TGATAAAGAA	ATTCTAACAA	GTCGAATAAT
AGATCGTTCA	ATTAGACCGC	TCTTTCCAGC	TGGCTACTTC	TATGATACAC
AGGTTCTGTG	TAATCTGTTA	GCAGTAGATG	GTGTAAATGA	GCCTGATGTC
CTAGCAATTA	ATGGCGCTTC	CGTAGCCCTC	TCATTATCAG	ATATTCCTTG
GAATGGACCT	GTTGGGGCAG	TACGAATAGG	AATAATTGAT	GGAGAATATG
TTGTTAACCC	AACAAGAAAA	GAAATGTCTT	CTAGTACTTT	AAATTTAGTG
GTTGCTGGAG	CACCTAAAAG	TCAGATTGTC	ATGTTGGAAG	CCTCTGCAGA
GAACATTTTA	CAGCAGGACT	TTTGCCATGC	TATCAAAGTG	GGAGTGAAAT
ATACCCAACA	AATAATTTCAG	GGCATTTCAGC	AGTTGGTAAA	AGAAACTGGT
GTTACCAAGA	GGACACCTCA	GAAGTTATTT	ACCCCTTCGC	CAGAGATTGT
GAAATATACT	CATAAACTTG	CTATGGAGAG	ACTCTATGCA	GTTTTTACAG
ATTACGAGCA	TGACAAAGTT	TCCAGAGATG	AAGCTGTTAA	CAAATAAGA
TTAGATACGG	AGGAACAAC	AAAAGAAAAA	TTCCAGAAG	CCGATCCATA
TGAAATAATA	GAATCCTTCA	ATGTTGTTGC	AAAGGAAGTT	TTAGAAGTA
TTGTTTTGAA	TGAATACAAA	AGGTGCGATG	GTCGGGATTT	GACTTCACTT
AGGAATGTAA	GTTGTGAGGT	AGATATGTTT	AAAACCCTTC	ATGGATCAGC
ATTATTTCAA	AGAGGACAAA	CACAGGTGCT	TTGTACCGTT	ACATTTGATT
CATTAGAATC	TGGTATTAAG	TCAGATCAAG	TTATAACAGC	TATAAATGGG
ATAAAAGATA	AAAATTTTCAT	GCTGCACTAC	GAGTTTCCTC	CTTATGCAAC
TAATGAAATT	GGCAAAGTCA	CTGGTTTAAA	TAGAAGAGAA	CTTGGGCATG
GTGCTCTTGC	TGAGAAAGCT	TTGTATCCTG	TTATTCCCAG	AGATTTTCCT
TTCACCATAA	GAGTTACATC	TGAAGTCCTA	GAGTCAAATG	GGTCATCTTC
TATGGCATCT	GCATGTGGCG	GAAGTTTAGC	ATTAATGGAT	TCAGGGGTTT
CAATTTTCATC	TGCTGTTGCA	GGCGTAGCAA	TAGGATTGGT	CACCAAAACC
GATCCTGAGA	AGGGTGAAAT	AGAAGATTAT	CGTTTGCTGA	CAGATATTTT
GGGAATTGAA	GATTACAATG	GTGACATGGA	CTTCAAAATA	GCTGGCACTA
ATAAAGGAAT	AACTGCATTA	CAGGCTGATA	TTAAATTACC	TGGAATACCA
ATAAAAATTG	TGATGGAGGC	TATTCAACAA	GCTTCAGTGG	CAAAAAAGGA
GATATTACAG	ATCATGAACA	AAACTATTTT	AAAACCTCGA	GCATCTAGAA
AAGAAAATGG	ACCTGTTGTA	GAAACTGTTT	AGGTTCCATT	ATCAAAACGA
GCAAAATTTG	TTGGACCTGG	TGGCTATAAC	TTAAAAAAC	TTCAGGCTGA
AACAGGTGTA	ACTATTAGTC	AGGTGGATGA	AGAAACGTTT	TCTGTATTTG
CACCAACACC	CAGTGTTATG	CATGAGGCAA	GAGACTTCAT	TACTGAAATC
TGCAAGGATG	ATCAGGAGCA	GCAATTAGAA	TTTGGAGCAG	TATATACCGC
CACAATAACT	GAAATCAGAG	ATACTGGTGT	AATGGTAAAA	TTATATCCAA
ATATGACTGC	GGTACTGCTT	CATAACACAC	AACTTGATAA	CGAAAGATTA
AACATCCTAC	TGCCCTAGGA	TTAGAAGTTG	GCCAAGAAAT	TCAGGTGAAA
TACTTTGGAC	GTGACCCAGC	CGATGGAAGA	ATGAGGCTTT	CTCGAAAAGT
GCTTCAGTCG	CCAGCTACAA	CCGTGGTCAG	AACTTTGAAT	GACAGAAGTA
GTATTGTAAT	GGGAGAACCT	ATTTACACAGT	CATCATCTAA	TTCTCAGTGA
TTTTTTTTTT	TTAAAGAGAA	TTCTAGAATT	CTATTTTGTC	TAGGGTGATG
TGCTGTAGAG	CAACATTTTA	GTAGATCTTC	CATTGTGTAG	ATTTCTATAT
AATATAAATA	CATTTTAATT	ATTTGTACTA	AAATGCTCAT	TTACATGTGC
CATTTTTTTT	ATTCGAGTAA	CCCATATTTG	TTTAATTGTA	TTTACATTAT
AAATCAAGAA	ATATTTATTA	<u>TTAAAAGTAA</u>	GTCATTTATA	CATCTTAGA

FIG. 9B

DGPFLLPRRD RALTQLQVRA LWSSAGSRV AVDLGNRKLE ISSGKLARFA  
DGSVVQSGD TAVMVTAVSK TKPSPSQFMP LVVDYRQKAA AAGRIPTNYL  
RREVGTSDE ILTSRIIDRS IRPLFPAGYF YDTQVLCNLL AVDGVNEPDV  
LAINGASVAL SLSDIPWNGP VGAVRIGIID GEYVVNPTRK EMSSSTLNLV  
VAGAPKSQIV MLEASAENIL QQDFCHAIKV GVKYTOQIIQ GIQQLVKETG  
VTKRTPQKLF TPSPEIVKYT HKLAMERLYA VFTDYEHDV SRDEAVNKIR  
LDTEEQLKEK FPEADPYEII ESFNVVAKV FRSIVLNEYK RCDGRDLTSL  
RNVSCVDMF KTLHGSALFQ RGQTQVLCV TFDSLESGIK SDQVITAING  
IKDKNFMLHY EFPPYATNEI GKVTGLNRRE LGHGALAEKA LYPVIPRDFP  
FTIRVTSEVL ESNSSSMAS ACGGSLALMD SGVPISAVA GVAIGLVTKT  
DPEKGEIEDY RLLTDILGIE DYNGDMDFKI AGTNKGITAL QADIKLPGIP  
IKIVMEAIQQ ASVAKKEILQ IMNKTISKPR ASRKENGPPV ETVQVPLSKR  
AKFVGPGGYN LKKLQAEAGV TISQVDEETF SVFAPTPSVM HEARDFITEI  
CKDDQEQQLE FGAVYTATIT EIRDTGVMVK LYPNMTAVLL HNTQLDNERL  
NILLP.

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FIG. 10A

B subtilis	.....MGQEKHVFTIDWAGRIIDT	18
human	DGPFLPRRDRALTQLOVRALWSSAGSRAVAVDLGNRKLE	40
Consensus	d r l	
B subtilis	VETGOLAKQANGAVMI RYGDTAVLSTATASKEPKPLDFFP	58
human	ISSGKLARFADGSAVVQSGDTAVMVTAVSKTKPSPSQFMP	80
Consensus	g l a a g gdtav ta p p f p	
B subtilis	LTVNVEERLYAVGKIPGGFTKREGRPSENRAVILASRLIDRP	98
human	LVVDYRQAAAAGRIPTNYLRREVGTSDKEILTSRIIDRS	120
Consensus	l v y a g ip re s k l sr idr	
B subtilis	IRPLEADGFRNEVOVISIVMSVDONCSSEMAAMFGSSLAL	138
human	IRPLEPAGYFYDTQVLCNLLAVDGVNEPDVLAINGASVAL	160
Consensus	irplf g qv vd a g s al	
B subtilis	SVSDIPFEGFLAGVTVGRIDDQFIINPTVDQLEKSDINLV	178
human	SLSDIPWNGPVGAVRIGIIDGEYVVNPTRKEMSSSTINLV	200
Consensus	s sdip gp v g id npt s nlv	
B subtilis	VAGT.KDAINMVEAGADEVP EEIMLEA IMFGEHEIKRLIA	217
human	VAGAPKSCIIVMLEASAENILOQDFCHAIKVGKVKYTQOIHQ	240
Consensus	vag k i m ea a ai g i	
B subtilis	FOEETVAAVEGKEN.SEIKLREIDEELNEKVKALAEEDILK	256
human	GIQQLVKETGVTKRTPQKLFTPSPFIVKYTHKLAMERLYA	280
Consensus	v g k klf e la e l	
B subtilis	AIQVHEKHAREDAINEVNAVVAKFEDEEHDEDTIKQVKQ	296
human	VFTDYEHDKVSRDEAVNKIRLDTTEEQLKEKFP EADPYEII	320
Consensus	e k e	
B subtilis	ILSKLVKNEVRRLITE.EKVRPDGRGVDQIRPLSSEVGLL	335
human	ESFNVAKEVFRSTVLNEYKRODGRDLTSLRNVSCEVDMF	360
Consensus	v ev r i e r dgr r s ev	
B subtilis	PRTHGSGLETRGOTOALSVCILGALGDVQILDGLGVEES.	374
human	KTLHGSALEPORGOTOVLCTVTFDSLESIGIKSDQVITAING	400
Consensus	hgs lf rgqtq l t l d	
B subtilis	...KRFMHYVNFPPQFSVGETGPMRGPGRREIGHGALGERA	411
human	IKDKNFMLHYEFPPYATNEIGKVTGLNRRELGHGALAEKA	440
Consensus	k fm hy fp e g g rre ghgal e a	
B subtilis	LEPVIPSEKDFPYTVRLVSEVLESNGSTSCASICASTLAM	451
human	LYPVIPR..DFPFTIRVTSEVLESNGSSSMASACGGSLAL	478
Consensus	l pvip dfp t r sevlesngs s as c la	

FIG. 10B

B subtilis	MDAGVPIKAPVAGIAMGLVKSG.....EHYTVLTDIQG	484
human	MDSCVPISSAVAGVAIGLVTKTDPEKGEIEDYRLITDILG	518
Consensus	md gvpi vag a glv e y ltdi g	
B subtilis	MEDALGDMDFRVAGTEKGVLTALQMDIKIECLSRILEEAL	524
human	IEDYNGDMDFKIAGTNKGITALQADIKLPCIPIKIVMEAI	558
Consensus	ed gdmdfk agt kg talq dik g i ea	
B subtilis	QOAKKGRMEIINSMLATLSESRKELSRYPKILMTINPD	564
human	QOASVAKKEILQIMNKTISKPRASRKENGVEVETVQVPLS	598
Consensus	qqa eil m t s r p t	
B subtilis	KIRDVIGESKQINNIIEETGVKIDIEQDGTIFISSTDES	604
human	KRAKFVGPSSYNLKNLQAEITGVISQVDEETFSVFAPTPS	638
Consensus	k gp g k etgv i t s	
B subtilis	GNQAKKIIDLVREVEVGQLYLSKVVKRIEKGAFVEIFS	644
human	VMHEARDFTIETICKDDQEQLEFGAVYTATITEIRDVGVM	678
Consensus	a i ql g v	
B subtilis	GKDGLVHISEIALERVGVKVEDVVKIGDEILVKVTEIDKQG	684
human	VKLYPNMTAVLLENTOLDNERLNILLP.....	705
Consensus	k l e	
B subtilis	RVNLSRKAVLREEKEKEEQQS	705
human	.....	705
Consensus		

# Half-life of Old-35 mRNA

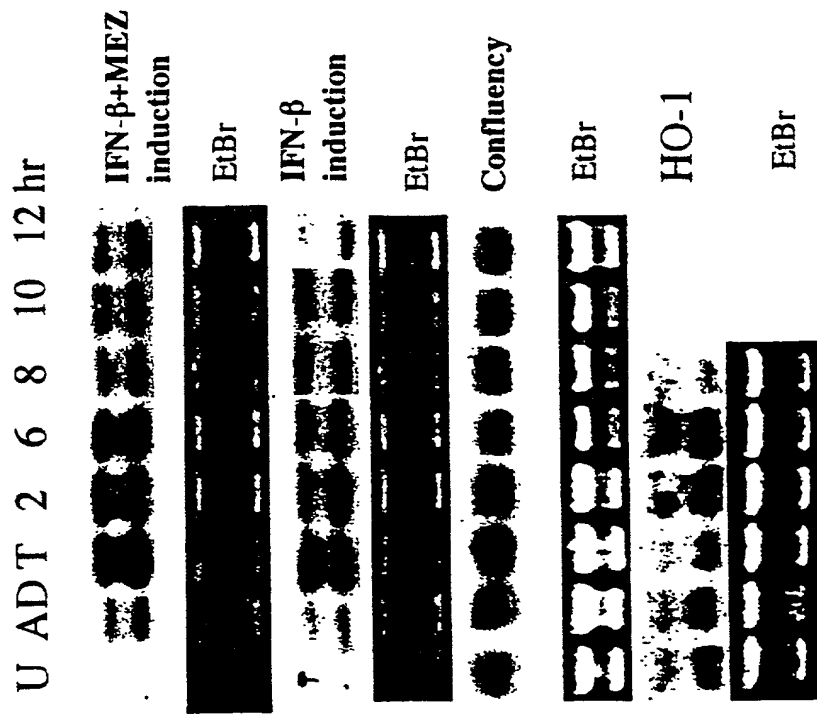


FIGURE 11

FIGURE 12

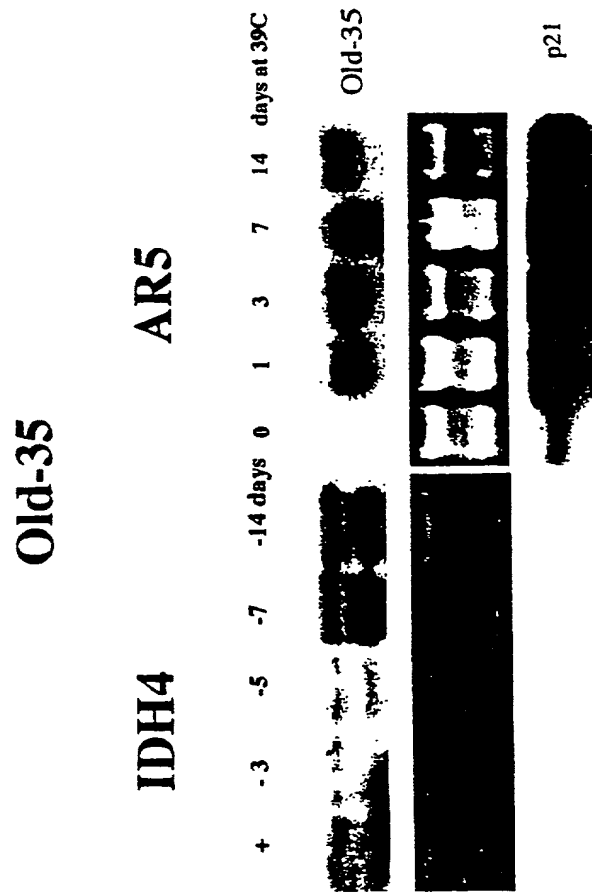
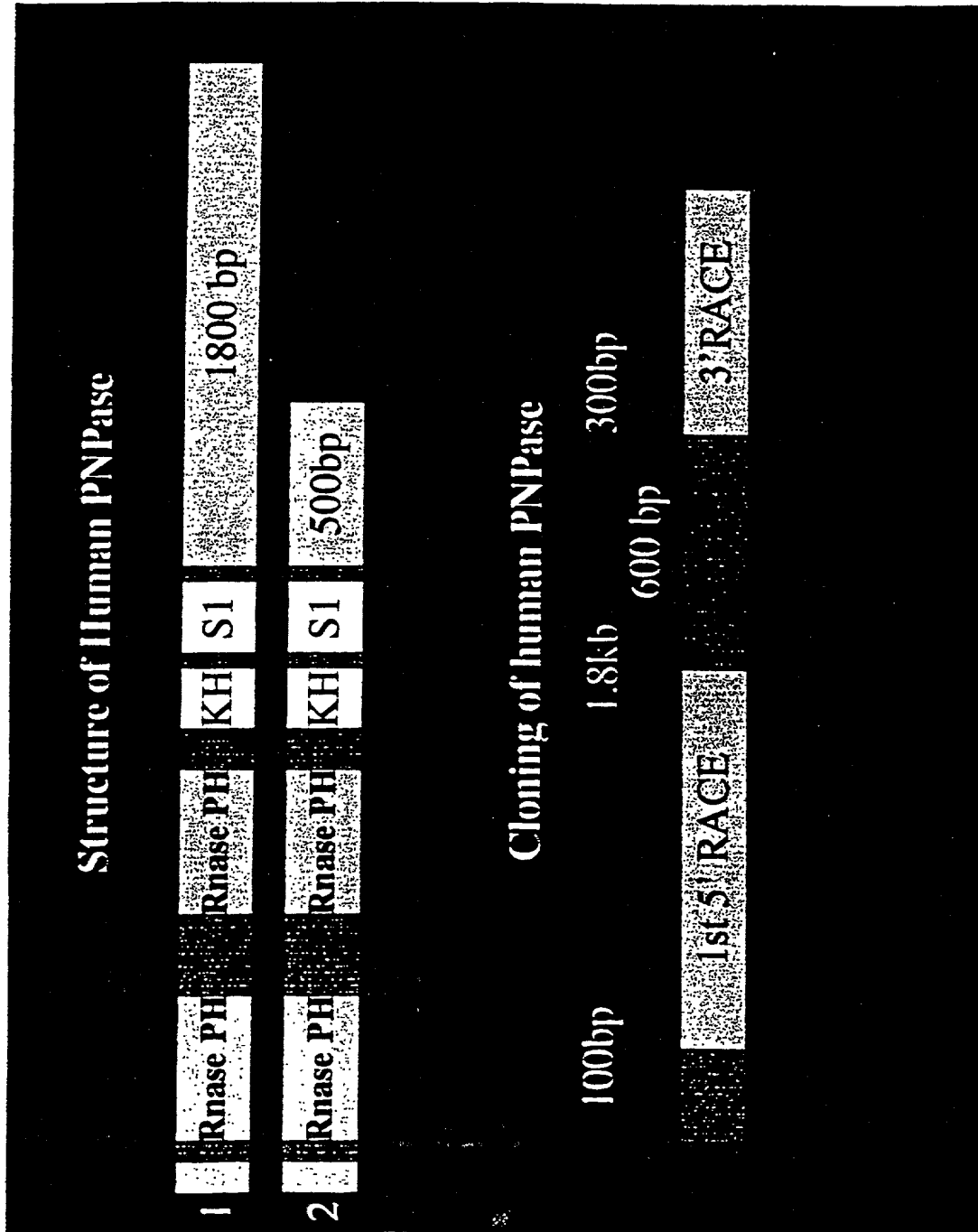


FIGURE 13





U αA αB2 αC αD αF αG αH αI αJ αA/D PBL001 TAU β

FIGURE 14

The effect of subtypes of IFN- α on  
Old-35 expression

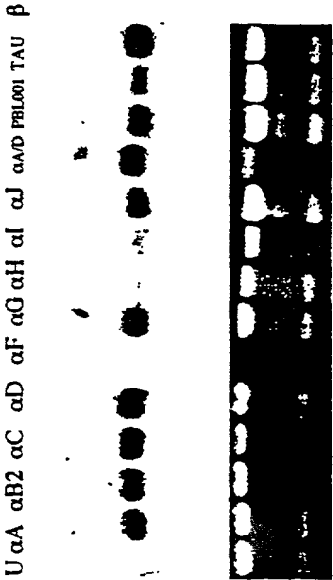


FIGURE 15

Old-35 is expressed in the spinal column  
and the genital area



## FIGURE 16

Localization of Old-35 In HeLa cells



GFP-hPNPase  
40X



GFP  
100X